

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) An upgrade apparatus for a [[home]] network system which is installed in the [[home]] network system having a first storage unit in which at least one protected program has been installed, and which comprises an upgrade means for deciding whether a second storage unit separated from the first storage unit stores an upgrade file corresponding to the protected program, and upgrading the protected program by using the upgrade file when the second storage unit stores the upgrade file corresponding to the protected program ~~according to the decision result.~~
2. (Original) The apparatus of claim 1, wherein a first storage unit protecting program is installed in the first storage unit, and the upgrade means upgrades the protected program after the first storage unit protecting program is executed.
3. (Currently Amended) The apparatus of claim 1, further comprising:
a connection means for communication with an external server; and
a control means for transmitting upgrade information for the protected program stored in the first ~~second~~ storage unit to the external server through the connection means, and receiving upgrade data containing a new upgrade file and upgrade information for the protected program from the external server.
- 4-8. (Cancelled)
9. (Currently Amended) An upgrade method for a [[home]] network system including a first storage unit in which at least one protected program has been installed, comprising the steps of:
deciding whether a second storage unit separated from the first storage unit stores an upgrade file corresponding to the protected program; and

upgrading the protected program by using the upgrade file when the second storage unit stores the upgrade file corresponding to the protected program ~~according to the decision result.~~

10. (Original) The method of claim 9, wherein, when a first storage unit protecting program is installed in the first storage unit, the decision step is performed after the first storage unit protecting program is executed.

11. (Original) The method of claim 9, further comprising the steps of:

accessing an external server;

transmitting upgrade information for the protected program stored in the second storage unit to the external server;

receiving upgrade data containing a new upgrade file and upgrade information for the protected program from the external server; and

storing the upgrade data in the second storage unit.

12. (Original) The method of claim 11, further comprising a step for reading the new upgrade file from the second storage unit, and upgrading the protected program.

13. (Cancelled)

14. (Currently Amended) A program storage medium for storing a computer readable program which is provided to a [[home]] network system including a first storage unit in which at least one protected program has been installed, and which comprises the steps of:

deciding whether a second storage unit separated from the first storage unit stores an upgrade file corresponding to the protected program; and

upgrading the protected program by using the upgrade file when the second storage unit stores the upgrade file corresponding to the protected program ~~according to the decision result.~~

15. (Original) The medium of claim 14, wherein, when a first storage unit protecting program is installed in the first storage unit, the program is executed after the first storage unit protecting program is executed.

16. (Original) The medium of claim 14, wherein the program further comprises the steps of:
accessing an external server;
transmitting upgrade information for the protected program stored in the second storage unit to the external server;
receiving upgrade data containing a new upgrade file and upgrade information for the protected program from the external server; and
storing the upgrade data in the second storage unit.

17-18. (Cancelled)

19. (Currently Amended) An upgrade apparatus for a [[home]] network system ~~which is installed in the home network system communicating with at least one sub-device and including~~ comprising:

a first storage unit in which at least one protected program has been installed;

a second storage unit which is separated from the first storage unit and stores upgrade data including upgrade information and an upgrade file corresponding to the protected program, comprising:

a connection means connected to an external server and the at least one sub-device, ~~for transmitting upgrade information stored in a second storage unit separated from the first storage unit to the external server, and receiving upgrade data containing a new upgrade file and upgrade information from the external server;~~

a control means for transmitting upgrade information stored in a second storage unit to the external server through the connection means, receiving a new upgrade data from the external server, storing the new upgrade information and making the protected program upgraded when the received upgrade data corresponds to the protected program, deciding whether the upgrade file relates to the sub-device or protected program, and transmitting the upgrade file to the sub-device when the received upgrade data does not correspond to the protected program or storing the upgrade file in the second storage unit according to the decision result; and

an upgrade means for upgrading the protected program corresponding to the received upgrade data [[file]] according to the control of the control means.

20. (Original) The apparatus of claim 19, wherein the upgrade information relates to the sub-device and the protected program.

21. (Original) The apparatus of claim 19, wherein a first storage unit protecting program is installed in the first storage unit, and the upgrade means upgrades the protected program after the first storage unit protecting program is executed.

22. (Currently Amended) The apparatus of claim 21, wherein the upgrade means ~~decides whether the second storage unit stores the upgrade file corresponding to the protected program, and~~ upgrades the protected program by using the upgrade file ~~according to the decision result,~~ after the first storage unit protecting program is executed and before the connection means is connected to the external server.

23-25. (Cancelled)

26. (Currently Amended) An upgrade method for a [[home]] network system communicating with at least one sub-device and including a first storage unit in which at least one protected program has been installed and a second storage unit which is separated from the first storage unit and stores upgrade data including upgrade information and an upgrade file corresponding to the protected program, comprising the steps of:

accessing an external server;

transmitting upgrade information ~~stored in a second storage unit separated from the first storage unit~~ to the external server;

receiving upgrade data ~~containing new upgrade information and a new upgrade file~~ from the external server;

storing the received upgrade data ~~new upgrade information~~ when the received upgrade data corresponds to the protected program, and upgrading the protected program corresponding to the received upgrade data [[file]]; and

~~deciding whether the upgrade file relates to the sub-device or protected program;~~

transmitting the received upgrade data [[file]] to the sub-device when the received upgrade data does not correspond to the protected program ~~or storing the upgrade file in the~~

~~second storage unit according to the decision result; and
upgrading the protected program corresponding to the upgrade file stored in the second storage unit.~~

27. (Original) The method of claim 26, wherein the upgrade information relates to the sub-device and the protected program.

28. (Original) The method of claim 26, further comprising a step for executing a first storage unit protecting program before the upgrade step, when the first storage unit protecting program is installed in the first storage unit.

29-30. (Cancelled)

31. (Currently Amended) A program storage medium for storing a computer readable program which is provided to a [[home]] network system communicating with at least one sub-device and including a first storage unit in which at least one protected program has been installed and a second storage unit which is separated from the first storage unit and stores upgrade data including upgrade information and an upgrade file corresponding to the protected program, comprising the steps of:

accessing an external server;
transmitting upgrade information ~~stored in a second storage unit separated from the first storage unit~~ to the external server;
receiving upgrade data ~~containing new upgrade information and a new upgrade file~~ from the external server;
storing the received upgrade data ~~new upgrade information~~ when the received upgrade data corresponds to the protected program, and upgrading the protected program corresponding to the received upgrade data [[file]]; and
~~deciding whether the upgrade file relates to the sub-device or protected program;~~
transmitting the received upgrade data file to the sub-device when the received upgrade data does not correspond to the protected program ~~or storing the upgrade file in the second storage unit according to the decision result; and~~
~~upgrading the protected program corresponding to the upgrade file stored in the second~~

~~storage unit.~~

32. (Original) The medium of claim 31, wherein the upgrade information relates to the sub-device and the protected program.

33. (Original) The medium of claim 31, wherein the program further comprises a step for executing a first storage unit protecting program before the upgrade step, when the first storage unit protecting program is installed in the first storage unit.

34-35. (Cancelled)